



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 01 11 7829

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 913 189 A (HALL JEANNE ET AL) 15 June 1999 (1999-06-15)	1,2,5	G10L19/06
Y	* column 3, line 37 - line 45; figure 1 *	3,4	
Y	EP 0 742 548 A (MITSUBISHI ELECTRIC CORP) 13 November 1996 (1996-11-13) * page 9, line 22 - line 42; figure 5 *	3	
Y	TOHKURA Y ET AL: "SPECTRAL SMOOTHING TECHNIQUE IN PARCOR SPEECH ANALYSIS-SYNTHESIS" IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, IEEE INC. NEW YORK, US, vol. ASSP-26, no. 6, 1 December 1978 (1978-12-01), pages 587-596, XP002032606 ISSN: 0096-3518 * page 588, column 1, line 5 - page 589, column 1, line 17 *	4	
A	WO 98 04046 A (ADOUL JEAN PIERRE ;SALAMI REDWAN (CA); LAFHAMME CLAUDE (CA); UNIV) 29 January 1998 (1998-01-29) * abstract *	9-20	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	RAMAKRISHNAN S, ROSE K, GERSHO A: "Constrained-storage vector quantization with a universal codebook" PROCEEDINGS DATA COMPRESSION CONFERENCE, 28 - 30 March 1995, pages 42-51, XP002247005 Snowbird, UT, USA * abstract *	9-20	G10L H03M H04M H04Q
A	WO 99 31895 A (ERICSSON TELEFON AB L M) 24 June 1999 (1999-06-24)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 July 2003	Examiner Köster, S
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/92 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5,7,8

adaptation of DTMF signals in spectral parameter domain

2. Claim : 6

selection of codevectors for different types of DTMF signals

3. Claims: 9-20

time efficient quantization of DTMF signals

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-07-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5913189 A	15-06-1999	NONE	
EP 0742548 A	13-11-1996	JP 2993396 B2	20-12-1999
		JP 8305397 A	22-11-1996
		CA 2175617 A1	13-11-1996
		CN 1148232 A	23-04-1997
		DE 69614752 D1	04-10-2001
		DE 69614752 T2	20-06-2002
		EP 0742548 A2	13-11-1996
		KR 197203 B1	15-06-1999
		NO 961894 A	13-11-1996
		US 5822732 A	13-10-1998
WO 9804046 A	29-01-1998	AU 3534597 A	10-02-1998
		CA 2258183 A1	29-01-1998
		WO 9804046 A2	29-01-1998
		EP 0913034 A2	06-05-1999
WO 9931895 A	24-06-1999	US 6208959 B1	27-03-2001
		AU 1896299 A	05-07-1999
		BR 9813596 A	10-10-2000
		CN 1285118 T	21-02-2001
		EE 200000341 A	15-08-2001
		EP 1040673 A1	04-10-2000
		WO 9931895 A1	24-06-1999
		US 6385585 B1	07-05-2002